

Title (en)  
CIRCUIT-SWITCHED SERVICES OVER SAE/LTE NETWORKS

Title (de)  
LEITUNGSVERMITTEL TE DIENSTE UBER SAE/LTE TE-NETZE

Title (fr)  
SERVICES A COMMUTATION DE CIRCUIT SUR DES RESEAUX SAE/LTE LTE

Publication  
**EP 3203804 B1 20180801 (EN)**

Application  
**EP 16200401 A 20081021**

Previously filed application  
PCT/IB2008/002810 20081021 WO

Priority

- US 98442607 P 20071101
- EP 08843427 A 20081021
- IB 2008002810 W 20081021

Abstract (en)  
[origin: WO2009056932A2] A method and apparatus for providing both Mobile Terminated, MT, and Mobile Originated, MO, circuit switched (CS) services such as Short Message Service, SMS, services in networks utilizing CS Fallback and CS-LTE-I architectures. An extended SGs interface referred to as SGs+ (63) is implemented between a Mobility Management Entity, MME, (64) in an SAE core network (11) and a Mobile Switching Center Server, MSC-S, (61). The SGs+ interface supports transmission of upper layer CS packet data units while utilizing either connectionless or connection-oriented Signaling Connection Control Part, SCCP, operation. The non access stratum, NAS, signaling support between the User Equipment, UE, (27) and the MME (64) is extended to provide support for both MT SMS and MO SMS service.

IPC 8 full level  
**H04L 69/14** (2022.01); **H04W 4/14** (2009.01); **H04W 92/04** (2009.01)

CPC (source: BR EP US)  
**H04W 4/14** (2013.01 - BR EP US); **H04W 36/0022** (2013.01 - US); **H04W 36/00224** (2023.05 - BR EP); **H04W 40/005** (2013.01 - BR US); **H04W 68/005** (2013.01 - BR US); **H04W 72/23** (2023.01 - BR US); **H04W 92/045** (2013.01 - BR EP US); **H04J 11/00** (2013.01 - US); **H04W 88/14** (2013.01 - US); **H04W 88/16** (2013.01 - US)

Designated contracting state (EPC)  
AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MT NL NO PL PT RO SE SI SK TR

DOCDB simple family (publication)  
**WO 2009056932 A2 20090507; WO 2009056932 A3 20090702**; BR PI0818866 A2 20150505; BR PI0818866 B1 20200519; CN 101933390 A 20101229; CN 101933390 B 20130925; DK 3203804 T3 20181112; EP 2215887 A2 20100811; EP 2215887 B1 20161207; EP 3203804 A1 20170809; EP 3203804 B1 20180801; ES 2618074 T3 20170620; ES 2692193 T3 20181130; PL 3203804 T3 20181231; US 2010265884 A1 20101021; US 2015119093 A1 20150430; US 2015281924 A1 20151001; US 2017019773 A1 20170119; US 8958389 B2 20150217; US 9088881 B2 20150721; US 9426636 B2 20160823; US 9883359 B2 20180130; ZA 201002545 B 20110629

DOCDB simple family (application)  
**IB 2008002810 W 20081021**; BR PI0818866 A 20081021; CN 200880114816 A 20081021; DK 16200401 T 20081021; EP 08843427 A 20081021; EP 16200401 A 20081021; ES 08843427 T 20081021; ES 16200401 T 20081021; PL 16200401 T 20081021; US 201514590282 A 20150106; US 201514740556 A 20150616; US 201615215745 A 20160721; US 74097708 A 20081021; ZA 201002545 A 20100412